Individualized Behavioral Health Monitoring Tool, Phase I

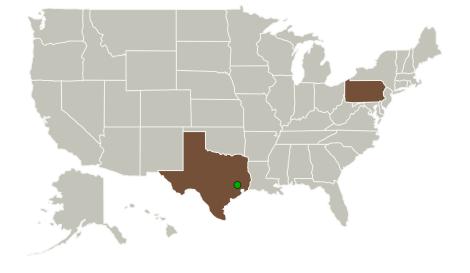


Completed Technology Project (2010 - 2010)

Project Introduction

Given the extended duration of future missions and the isolated, extreme and confined environments, there is the possibility that behavioral conditions and mental disorders (DSM-IV-TR) will develop. The overarching goal of this project is to deliver an Individualized Behavioral Health Monitoring Tool that unobtrusively integrates all available behavioral measures collected during a mission to provide a dashboard of behavioral health indicators. These indicators will be placed within the context of quantitatively-tracked mission stressors to provide meaningful feedback to astronauts, and possibly the Operational Psychology Group and Flight Surgeons responsible for behavioral health support. The result of this project through Phase II will be a system prototype that can be deployed in space analog environments for validation testing and ultimately deployed on ISS and lunar missions. The critical need for an Individualized Behavioral Health Monitoring Tool has been identified as a priority outlined in the BHP Integrated Research Plan (July 2009) gap BMED3. During Phase I, we will perform an assessment of behavioral health monitoring technologies and develop an engineering requirements document and detailed technical plans to implement during Phase II (Phase I TRL of 3).

Primary U.S. Work Locations and Key Partners





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Small Business Innovation Research/Small Business Tech Transfer

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Organizations Performing Work	Role	Туре	Location
Pulsar Informatics Inc	Lead Organization	Industry	
Johnson Space Center(JSC)	Supporting Organization	NASA Center	Houston, Texas

Primary U.S. Work Locations	
Pennsylvania	Texas

Project Transitions

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January 2010: Project Start



July 2010: Closed out

Closeout Documentation:

• Final Summary Chart(https://techport.nasa.gov/file/140072)

Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Organization:

Pulsar Informatics Inc

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Principal Investigator:

Daniel Mollicone

Co-Investigator:

Daniel Mollicone

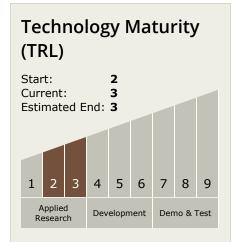


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Technology Areas

Primary:

- TX06 Human Health, Life Support, and Habitation Systems
 - ☐ TX06.3 Human Health and Performance
 - ☐ TX06.3.3 Behavioral Health and Performance

Target Destinations

The Sun, Earth, The Moon, Mars, Others Inside the Solar System, Outside the Solar System

